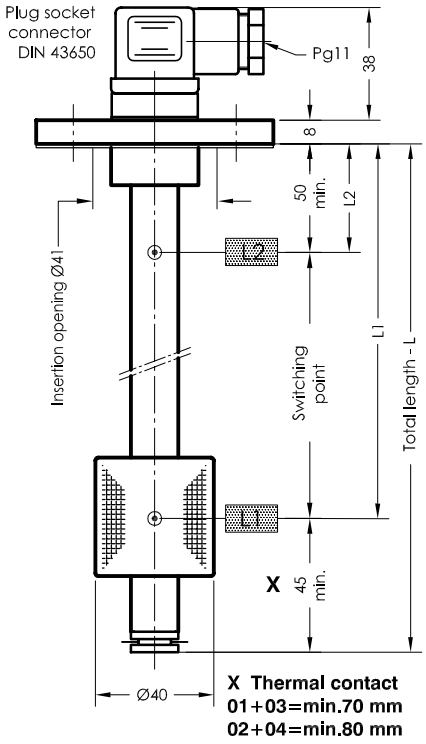
NR 50

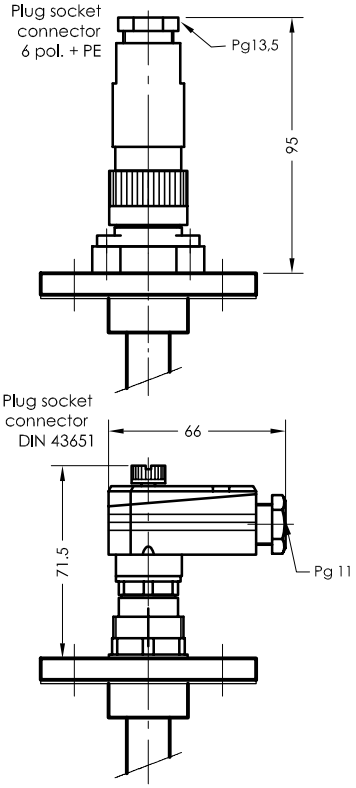
Level regulator for tank insert

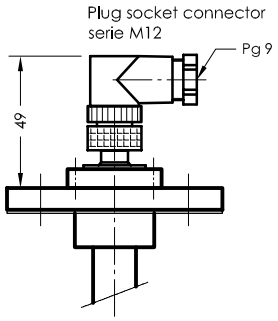
MODEL SPECIFIED BY VW-AUDI

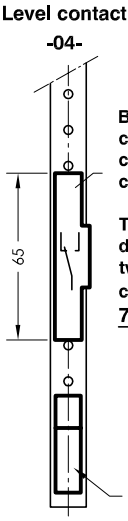
39 D 934 with plug socket connection DIN 43650

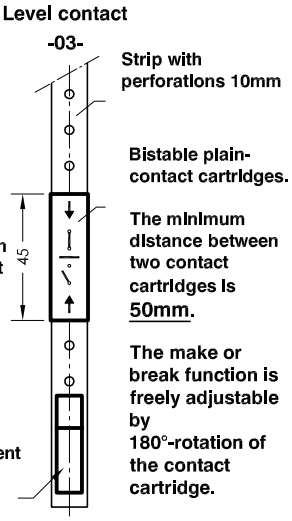
serial No.	Date
IN-GB- 102	03/10

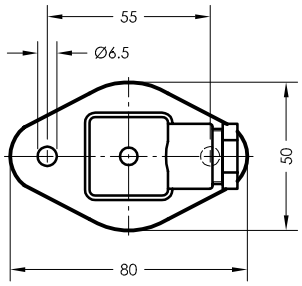









Level contact
-03-
Strip with perforations 10mm
Bistable plain-contact cartridges.
The minimum distance between two contact cartridges is 50mm.
45
The make or break function is freely adjustable by 180°-rotation of the contact cartridge.



Specimen order

NR 50 -SR40-L300-03-L1/200/S-T70Ö- M12

- Float type: SR40, ELSR40
- Total length-L switching tube (mm)
- Level contact type: 01 = fixed, plain; 02 = fixed, changeover; 03 = adjustable, plain; 04 = adjustable, changeover
- Switching point L1-L3/ mm from sealing edge: Ö = break; S = make; W= changeover; Function with increasing level
- Pt100 Sensor Thermal contact: T50Ö; T55Ö (S) (Ö preferred); T60Ö (S); T70Ö (S); T80Ö (S); T90Ö

Description

The level regulator type NR 50 for tank insert is a solenoid switch operating without contact with the function of monitoring and regulating liquid levels and temperatures.
The switching tube contains bistable protective gas contacts. They may be fixed or alternatively mounted as an adjustable contact cartridge on a perforated strip. For fixed contacts, the contact intervals and their functions must be given. Plain contact cartridges can be subsequently adjusted for height. The function of make or break can then be altered by turning the cartridge through 180° degrees. The permanent magnet built into the float switches the contacts when the level changes. The switching difference (hysteresis) is 4 mm. For temperature monitoring and regulation, thermal elements such as Pt100, Sensors and thermal contacts can be additionally incorporated.
The level controller is maintenance - free when nondeposit media are used.
For inductive loads, a protective circuit must be provided (free-wheeling diode/RC element).
The device must only be installed by specialists.
Max. viscosity ISO VG 100

Technical data

Switching tube	Brass, max.L = 800mm
Connection flange	Polyamide with flat seal
Nominal pressure	1 bar max.
Temperature of medium	100°C max.
Float	Hard-PU, type SR40 Ceramic, type ELSR40
Level contacts	bistable make/break/changeover optional fixed or adjustable
Plug socket connector	DIN 43650 or DIN 43651 or 6 pol.+ PE IP65 or serie M12 IP68
Switching current	Contact type 01+03 0,5A max. Contact type 02+04 1A max.
Switching potential	Contact type 01+03 10 W/VA max. 230V AC max. Contact type 02+04 60 W/VA max. 250V AC/DC max.
Thermal elements	Pt100, sensor, thermal contact
Thermal contact	Hysteresis 1K Calibration ± 3°C
Number of functions	max. 3 can be incorporated
Mounting position	vertical ± 30°
*Thermal contact	Sheet TR-GB-507